

Table S2. Studies used in model development and evaluation

Population	N	Age	Dosing interval	Dose	Reference
Adult Development Datasets					
Healthy volunteers	10	27y (SD 4)	Single dose	100mg	Yeates et al. 1994 ⁴⁶
Healthy volunteers	8	21.1y (range 21-22)	Single dose	50mg	Shiba et al. 1990 ⁴⁷
	8	21.1y (range 21-22)	Single dose	25mg	Shiba et al. 1990 ⁴⁷
Adult Validation Datasets					
Healthy volunteers	10	NR	Single dose	50mg	Brammer et al. 1990 ⁵⁰
Healthy volunteers	10	NR	q24 hours	50mg	Brammer et al. 1987 ⁴⁸
Healthy volunteers	10	NR	q24 hours	100mg	Foulds et al. 1988 ⁴⁹
Pediatric Validation Dataset					
Critically ill infants	13	36d (range 6-262d)	q24 hours	25mg/kg	Piper et al. 2015 ¹⁸
ECMO Validation Dataset					
Critically ill infants on ECMO	11	24d (range 1-165d)	q24-168 hours ^a	25mg/kg	Watt et al. 2015 ¹⁰

^aThe dosing interval for the Fluconazole ECMO Trial was variable based on indication, so only data from the first 24 hours was used.

NR – not reported